



**PowerAcoustik**

**\* BM-10W**

**\* BM-12W**

**\* BM-15W**

**[WWW.POWERACOUSTIK.COM](http://WWW.POWERACOUSTIK.COM)**

## Recommended box sizes

Model	Sealed Box Size	Ported Box Size	Tune Freq.	# of Ports	Port (dia x length)
BM-10W	1.0 cubic feet	2.0 cubic feet	38 Hz	1	4" x 9.2"
BM-12W	1.75 cubic feet	NA	NA	NA	NA
BM-15W	2.5 cubic feet	NA	NA	NA	NA

## Building the Enclosure

- Determine the dimensions of your enclosure.
- Be certain the box dimensions that you have designed will fit in the location you have chosen in your vehicle. Sometimes making a cardboard box with the same outside dimensions is helpful.
- It is recommended to use  $\frac{3}{4}$  inch thick MDF (medium density fiberboard) for your box.
- Use a "T" square to verify precise right angle cuts before you assemble the box.
- Use high quality wood glue and screws to assemble the box to guarantee an airtight box that will not come apart due to excess vibration and pressure.
- It is recommended for sealed enclosures to stuff the interior of the box about 50 - 75% fiberglass insulation or Dacron fiberfill for increased sound damping and woofer performance.
- For ported enclosures, it is recommended to staple 1" thick fiberglass insulation to the interior walls of your box.
- Use slide on connectors for spade style connectors or bare wire for push and screw terminals. Do not solder the wires to the factory connectors as this may cause damage to the voice coil or tinsel lead and may void your warranty.

## Recommended wiring

The following page will give you a few different options to match the impedance of the woofers to the impedance capability of the amplifier. Please look and follow the diagrams closely to insure maximum woofer performance.

## Power Acoustik BM Woofers

Congratulations on your purchase of one of the finest woofers available for your vehicle today.

If you are an enthusiast that plays your system loud and hard, the BM woofers will take you to the limit. Our small sealed enclosure, high excursion design will move enough air to part your hair. Let your woofers do all the talking to let everyone know you are a "Serious about your sound".

Please take a few moments to fill out the warranty card and review this manual before installing this woofer for proper connections and box sizes.

### Design Features

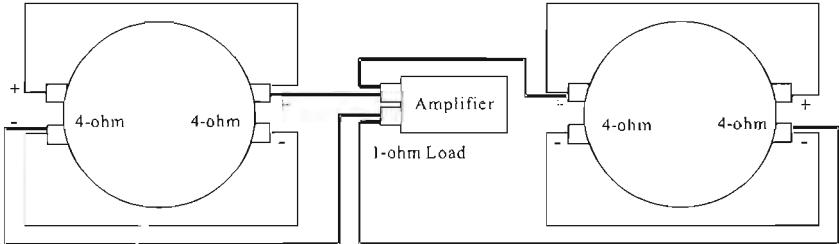
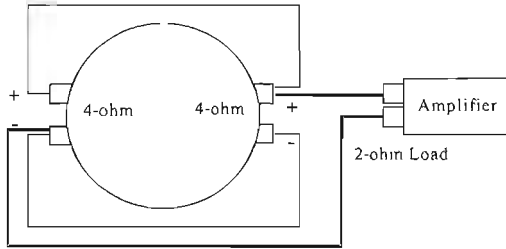
Chrome stamped steel basket  
Chrome injection molded cone  
High-F magnet cover  
Large foam surround  
EVA gasket  
Black poly-cotton spider  
Woven tinsel leads through the spider  
Chrome push terminals  
Dual 4-ohm voice coil

	BM-10W	BM-12W	BM-15W
SPL:	91 dB	92 dB	93 dB
Magnet size:	65oz.	70oz.	75oz.
EISV voice coil:	2"	2"	2"
Power (RMS watts):	400	500	600
Power (MAX watts):	800	1,000	1,200

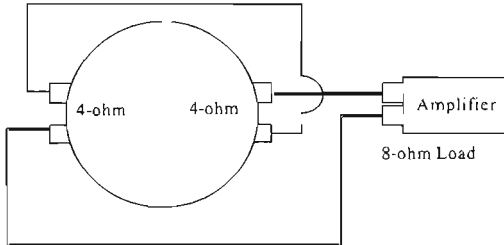
### Thiele / Small Parameters

	<u>BM-10W</u>	<u>BM-12W</u>	<u>BM-15W</u>
Fs	36.9 Hz	36.5 Hz	25.9 Hz
Vas	1.3 Cu. Ft.	2.30 Cu. Ft.	6.92 Cu. Ft.
Qms	15.801	11.914	10.892
Qes	0.594	0.800	0.812
Qts	0.572	0.750	0.756
X-max	10 mm	10 mm	12.5 mm

### Parallel voice coil configuration



### Series voice coil configuration



### Series/Parallel voice coil configuration

